

PUBLIC COMMENTS

All data, except confidential business information, submitted by the applicant, as well as the draft permit prepared by EPA, are contained in the administrative record for Century Oil and Gas Corporation. This information is available for public inspection at the following locations from 9:00 a.m. to 5:00 p.m., or by contacting one of the following offices:


Environmental Protection Agency  
Montana Office  
Attn: Bill Engle  
Federal Office Building  
Drawer 10096  
301 South Park  
Helena, Montana 59626  
Telephone (406) 449-5414

Environmental Protection Agency  
Region VIII  
Ground Water Section  
Attn: Laura Clemmens  
One Denver Place, Suite 1300  
999 18th Street  
Denver, Colorado 80202-2413  
Telephone (303) 293-1419

Public comments are encouraged and will be accepted, in writing, at the Denver Office for a period of thirty (30) days after publication of this notice. A request for a public hearing should be made in writing and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IS SHOWN.

AUG 29 1985

Date of Publication



Max H. Dodson, Director  
Water Management Division

# PUBLIC VOUCHER FOR ADVERTISING

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE <b>U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division</b>		For Agency Use Only
PLACE VOUCHER PREPARED <b>1860 Lincoln St., Denver, CO 80295</b>		VOUCHER NUMBER
NAME OF PUBLICATION <b>Public Notice</b>		SCHEDULE NUMBER
NAME OF PUBLISHER OR REPRESENTATIVE <b>BILLINGS GAZETTE</b>		<div style="border: 2px solid black; padding: 10px; display: inline-block;"> <b>RECEIVED</b>   <b>SEP 10 1985</b>   EPA REGION VIII DRINKING WATER BRANCH </div>
ADDRESS (Street, room number, city, State, and ZIP code) <b>P.O. Box 2507</b>		
<b>401 N. Broadway, Billings, MT 59103</b>		

CHARGES			
TYPEFACE <b>Avant Garde</b>	(size of type) <b>6</b>	line (inch, square, word, or folio)	
	POINT PER		
	NUMBER OR LINES (Indicate counted or space)	COST PER LINE	TOTAL COST
Line Rates	FIRST INSERTION	123	\$ 1.40
	ADDITIONAL INSERTIONS GIVE NUMBER ▶		
	<b>TOTAL</b>		\$ 172.20
	NUMBER OF UNITS (Indicate inch, square, word, folio)	COST PER UNIT	TOTAL COST
Other Rates	FIRST INSERTION		
	ADDITIONAL INSERTIONS GIVE NUMBER ▶		
	<b>TOTAL</b>		\$
Attach one copy of advertisement (including upper and lower rules) to each copy of voucher here. If copy is not available sign the following affidavit.		TOTAL LINE RATES AND OTHER RATES	172.20
		LESS DISCOUNT AT %	
		BALANCE DUE	\$ 172.20
		VERIFIED (Initials)	<i>Jan</i>

## AFFIDAVIT

This represents a true billing for the attached advertising order, with specifications and copy, which has been completed.

SIGNATURE OF PUBLISHER OR REPRESENTATIVE <i>John M. Allen</i>	
TITLE <b>Legals Clerk</b>	DATE <b>8/29/85</b>

## FOR AGENCY USE ONLY

ADVERTISEMENT PUBLISHED IN	DATE PUBLISHED
I certify that the advertisement described above appeared in the named publication and that this account is correct and eligible for payment.	
SIGNATURE AND TITLE OF CERTIFYING OFFICER <i>Edna E. Walton, UIC Permit Clerk</i>	DATE <b>9/11/85</b>
SIGNATURE AND TITLE OF AUTHORIZING OFFICER	DATE
ACCOUNTING CLASSIFICATION <b>6850200 KPN059 Order X5278 5A7108KOPN</b>	PAYED BY CHECK NUMBER
<b>2540 08 Est. \$250.00</b>	

\* If the ability to certify and authority to approve are combined in one person enter "N/A" (not applicable) here.



# ADVERTISING ORDER

X5278NASA  
ORDER NUMBER

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division

DATE  
Aug 21, 1985

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

BILLINGS GAZETTE

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE

NUMBER OF TIMES ADVERTISEMENT APPEARED

ONE TIME ONLY

SPECIFICATIONS FOR ADVERTISEMENT

EDITION OF PAPER ADVERTISEMENT APPEARED

DATE(s) ADVERTISEMENT APPEARED

August 29, 1985

(or prior to)

Reduction may be necessary. One (1) AFFIDAVIT OF PUBLICATION AND ONE (1) COPY OF PRINTED NOTICE IN ADDITION TO THE COMPLETED REVERSE OF THIS VOUCHER SHOULD BE MAILED TO: UIC PERMITS CLERK, Drinking Water Branch, Water Management Division, 8WM-DW, U.S. Environmental Protection Agency, 1860 Lincoln St., Denver, CO 80295

COPY FOR ADVERTISEMENT

COPY ATTACHED FOR PUBLIC NOTICE -

INTENT TO ISSUE AND UNDERGROUND INJECTION CONTROL  
PERMIT APPLICATION  
CENTURY OIL & GAS CORPORATION  
VICKERS #1 USDW  
(MTS21PR-0002)

AUTHORITY TO ADVERTISE	INSTRUMENT OF ASSIGNMENT
NUMBER EPA Delegations Manual 1-1-A(3)	NUMBER
DATE January 28, 1976	DATE 8/22/85
SIGNATURE OF AUTHORIZING OFFICIAL <i>Virginia Burns</i>	TITLE Contract Specialist

## INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC.  
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C. Invitation No. C-5576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 8:00 p.m., November 15, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to ▶

## IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

## NOTICE TO ADVERTISER

The rate at which this advertising is extended is subject to possible adjustment based upon advertiser performance.  
(Does Not Apply to Legal Ads)

UIC PERMITS CLERK

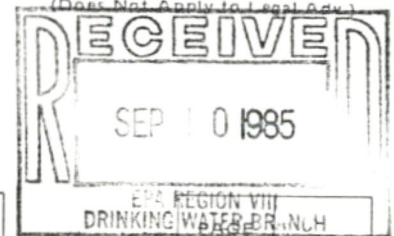
Drinking Water Branch, Water  
Management Division, 8WM-DW

U.S. EPA

1860 Lincoln St.

Denver, 30 80295

SOLD TO

CUSTOMER  
NUMBER

45269

BILLING  
DATE

8/29/85

EXPIRATION  
DATE

DESCRIPTION

CLASS

LINES

TIMES

TOTAL  
LINES

RATE

AMOUNT

8/29/85

123 line legal regarding  
PUBLIC NOTICE

090

123

1

123

\$1.40

\$172.20

Publication date:  
8/29/85

at due accounts are subject to a FINANCE CHARGE of 1 1/2%  
month which is an ANNUAL PERCENTAGE RATE of 18%  
plied to the previous balance.

Bills Payable 10th  
of Following Month

NET AMOUNT DUE ▶

\$172.20



Century Oil and Gas Corporation has supplied the required information and data necessary for permit issuance in accordance with 40 CFR Parts 144, 146 and 147, and a draft permit has been prepared. EPA has made a preliminary determination to approve the permit application and that by doing so, all underground sources of drinking water will be protected. Therefore, EPA is hereby serving notice of intent to issue a permit for the

proposed underground injection activity. This action is being taken as provided by Part C of the Safe Drinking Water Act and attendant regulations, 40 CFR 144.33. The final permit will be issued for the operating life of the well, therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR Sections 144.39, 144.40 and 144.41).

Public Comments — All data, except confidential business information, submitted by the applicant, as well as the draft permit prepared by EPA, are contained in the administrative record for Century Oil and Gas Corporation. This information is available for public inspection at these locations from 9:00 a.m. to 5:00 p.m., or by contacting one of the following offices:

Environmental Protection Agency, Montana Office, Attn: Bill Engle, Federal Office Building, Drawer 10096, 301 South Park, Helena, MT 59626, telephone: 406/449-5414; Environmental Protection Agency, Region VIII, Ground Water Section, Attn: Laura Clemmens, One Denver Place, Suite 1300, 999 10th Street, Denver, CO 80202-2413, telephone: 303/293-1419.

Public comments are encouraged and will be accepted, in writing, at the Denver Office for a period of thirty (30) days after publication of this notice. A request for public hearing should be made in writing and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IS SHOWN.

Max H. Dodson, Director  
8/29 Water Mgmt. Division

# Affidavit of Publication

STATE OF MONTANA, }  
County of Yellowstone, } ss.

Judy M. Allen

Being duly sworn, deposes and says:

That she is the principal clerk of The Billings Gazette, a newspaper of general circulation published daily in the City of Billings, in the County of Yellowstone, State of Montana, and has charge of the advertisements thereof.

That the 123 line legal regarding  
PUBLIC NOTICE

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz:

8/29/85

making in all 1 publication.

Subscribed and sworn to before me this 29th

day of August, 1985.

Barbara E. Meek

NOTARY PUBLIC for the State of Montana  
Residing at Billings, Montana

My commission expires 5/13/86.

(NOTARIAL SEAL)

U.S. Environmental  
Protection Agency  
PUBLIC NOTICE  
Intent To Issue  
An Underground Injection  
Control Permit  
For Century Oil and Gas  
Corporation  
Purpose Of Public Notice —  
The purpose of this notice is  
to solicit public comment on  
the proposal by the Region  
VIII office of the U.S. Environmental  
Protection Agency (EPA) to issue a  
permit to inject fluids underground  
via a Class II salt  
water disposal injection well.  
Background — EPA Region  
VIII is currently reviewing  
an application for an Underground  
Injection Control Permit  
for the Vickers #1  
SWDW from Century Oil and  
Gas Corporation, of 7887  
Bellevue Avenue, Suite 800,  
Englewood, CO, 80111. The  
well is located in the SE  
quarter of Section 6, T29N,  
R50E, in Roosevelt County.  
Century Oil and Gas has  
been injecting brines produced  
in conjunction with oil  
production from the Charles  
Formation into the Dakota  
Formation since April 1,  
1983. The injected water is  
produced by a number of different  
operators in the Paplar  
Field, and is hauled from  
the producing wells to the  
Vickers disposal facility. The  
average total dissolved  
solids level for the disposal  
water is 250,000 mg./l. There  
are no known drinking water  
wells within the area of  
review.

DEPARTMENT OR ESTABLISHMENT, BUREAU OFFICE

DATE

U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division

Aug 21, 1985

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule now provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

BILLINGS GAZETTE

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

DATE(s) ADVERTISEMENT APPEARED

ONE TIME ONLY

August 29, 1985

(or prior to)

SPECIFICATIONS FOR ADVERTISEMENT

Reduction may be necessary. One (1) AFFIDAVIT OF PUBLICATION AND ONE (1) COPY OF PRINTED NOTICE IN ADDITION TO THE COMPLETED REVERSE OF THIS VOUCHER SHOULD BE MAILED TO: UIC PERMITS CLERK, Drinking Water Branch, Water Management Division, 8WM-DW, U.S. Environmental Protection Agency, 1860 Lincoln St., Denver, CO 80295

COPY FOR ADVERTISEMENT

COPY ATTACHED FOR PUBLIC NOTICE -

INTENT TO ISSUE AND UNDERGROUND INJECTION CONTROL  
PERMIT APPLICATION  
CENTURY OIL & GAS CORPORATION  
VICKERS #1 USDW  
(MTS21PR-0002)

AUTHORITY TO ADVERTISE	INSTRUMENT OF ASSIGNMENT
NUMBER EPA Delegations Manual 1-1-A(3)	NUMBER
DATE January 28, 1976	DATE 8/22/85
SIGNATURE OF AUTHORIZING OFFICIAL <i>Virginia Burns</i>	TITLE Contract Specialist

## INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC,  
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-6576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 8:00 p.m., November 15, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to ►.....

## IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

# PUBLIC VOUCHER FOR ADVERTISING

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE <b>U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division</b>		<b>For Agency Use Only</b>
PLACE VOUCHER PREPARED <b>1860 Lincoln St., Denver, CO 80295</b>		VOUCHER NUMBER
NAME OF PUBLICATION <b>Public Notice</b>		DATE PREPARED <b>8/21/85</b>
NAME OF PUBLISHER OR REPRESENTATIVE <b>BILLINGS GAZETTE</b>		SCHEDULE NUMBER
ADDRESS (Street, room number, city, State, and ZIP code) <b>P.O. Box 2507 401 N. Broadway, Billings, MT 59103</b>		PAID BY

## CHARGES

TYPEFACE	(size of type)	POINT PER	(inch, square, word, or folio)
<b>Line Rates</b>			
	NUMBER OR LINES (Indicate counted or space)	COST PER LINE	TOTAL COST
FIRST INSERTION		\$	\$
ADDITIONAL INSERTIONS GIVE NUMBER ▶			
<b>TOTAL</b>			\$
<b>Other Rates</b>			
	NUMBER OF UNITS (Indicate inch, square, word, folio)	COST PER UNIT	TOTAL COST
FIRST INSERTION		\$	\$
ADDITIONAL INSERTIONS GIVE NUMBER ▶			
<b>TOTAL</b>			\$

Attach one copy of advertisement (including upper and lower rules) to each copy of voucher here. If copy is not available sign the following affidavit.

TOTAL LINE RATES AND OTHER RATES	
LESS DISCOUNT AT %	
BALANCE DUE	\$
VERIFIED (Initials)	

## AFFIDAVIT

This represents a true billing for the attached advertising order, with specifications and copy, which has been completed.

SIGNATURE OF PUBLISHER OR REPRESENTATIVE

TITLE	DATE
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## FOR AGENCY USE ONLY

ADVERTISEMENT PUBLISHED IN	DATE PUBLISHED
I certify that the advertisement described above appeared in the named publication and that this account is correct and eligible for payment.	
SIGNATURE AND TITLE OF CERTIFYING OFFICER	DATE
SIGNATURE AND TITLE OF AUTHORIZING OFFICER	DATE
ACCOUNTING CLASSIFICATION <b>6850200      KPN059      Order <u>X5278</u>      5A7108KOPN</b>	PAID BY CHECK NUMBER
<b>2540      08      Est. \$250.00</b>	

\* If the ability to certify and authority to approve are combined in one person enter "N/A" (not applicable) here.



U.S. ENVIRONMENTAL PROTECTION AGENCY

PUBLIC NOTICE  
INTENT TO ISSUE AN UNDERGROUND INJECTION CONTROL PERMIT  
FOR  
CENTURY OIL AND GAS CORPORATION

PURPOSE OF PUBLIC NOTICE

The purpose of this notice is to solicit public comment on the proposal by the Region VIII Office of the U. S. Environmental Protection Agency (EPA) to issue a permit to inject fluids underground via a Class II salt water disposal injection well.

BACKGROUND

EPA Region VIII is currently reviewing an application for an Underground Injection Control Permit for the Vickers #1 SWDW from Century Oil and Gas Corporation, of 7887 Belleview Avenue, Suite 800, Englewood, Colorado, 80111. The well is located in the SE quarter of Section 6, Township 29 North, Range 50 East, in Roosevelt County.

Century Oil and Gas has been injecting brines produced in conjunction with oil production from the Charles Formation into the Dakota Formation since April 1, 1983. The injected water is produced by a number of different operators in the Poplar Field, and is hauled from the producing wells to the Vickers disposal facility. The average total dissolved solids level for the disposal water is 250,000 mg./l. There are no known drinking water wells within the area of review.

Century Oil and Gas Corporation has supplied all required information and data necessary for permit issuance in accordance with 40 CFR Parts 144, 146, and 147, and a draft permit has been prepared. EPA has made a preliminary determination to approve the permit application and that by doing so, all underground sources of drinking water will be protected. Therefore, EPA is hereby serving notice of intent to issue a permit for the proposed underground injection activity. This action is being taken as provided by Part C of the Safe Drinking Water Act and attendant regulations, 40 CFR 144.33.

The final permit will be issued for the operating life of the well, therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR Sections 144.39, 144.40, and 144.41).

PUBLIC COMMENTS

All data, except confidential business information, submitted by the applicant, as well as the draft permit prepared by EPA, are contained in the administrative record for Century Oil and Gas Corporation. This information is available for public inspection at the following locations from 9:00 a.m. to 5:00 p.m., or by contacting one of the following offices:

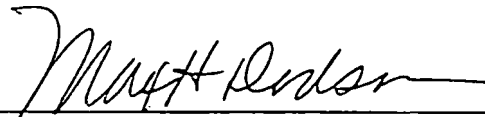
Environmental Protection Agency  
Montana Office  
Attn: Bill Engle  
Federal Office Building  
Drawer 10096  
301 South Park  
Helena, Montana 59626  
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Environmental Protection Agency  
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Attn: Laura Clemmens  
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AUG 29 1985

Date of Publication



Max H. Dodson, Director  
Water Management Division

## ADVERTISING ORDER

X5279NASA  
ORDER NUMBER

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division

DATE

Aug 21, 1985

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NAME OF THE PUBLICATION ADVERTISED IN

Wolf Point Herald News

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

ONE TIME ONLY

DATE(s) ADVERTISEMENT APPEARED

Aug 29, 1985

(or prior to)

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COPY FOR ADVERTISEMENT

COPY ATTACHED FOR PUBLIC NOTICE -

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PERMIT APPLICATION  
CENTURY OIL & GAS CORPORATION  
VICKERS #1 USDW  
(MTS21PR-0002)

AUTHORITY TO ADVERTISE		INSTRUMENT OF ASSIGNMENT	
NUMBER		NUMBER	
EPA Delegations Manual 1-1-A(3)			
DATE		DATE	
January 28, 1976		8/22/85	
SIGNATURE OF AUTHORIZING OFFICIAL		TITLE	
<i>Virginia Burns</i>		Contract Specialist	

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NAME OF PUBLICATION <b>Public Notice</b>		PAID BY
NAME OF PUBLISHER OR REPRESENTATIVE <b>Wolf Point Herald News</b>		
ADDRESS (Street, room number, city, State, and ZIP code) <b>P.O. Box 639 Wolf Point, Montana 59201</b>		

## CHARGES

TYPEFACE	(size of type)	POINT PER	(inch, square, word, or folio)
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TITLE

DATE

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SIGNATURE AND TITLE OF AUTHORIZING OFFICER	DATE
ACCOUNTING CLASSIFICATION  6850200    KPN060    Order <u>X5279</u> 5A7108KOPN  2540    08    Est. \$250.00	PAID BY CHECK NUMBER

<sup>1</sup> If the ability to certify and authority to approve are combined in one person enter "N/A" (not applicable) here.

U.S. ENVIRONMENTAL PROTECTION AGENCY

PUBLIC NOTICE  
INTENT TO ISSUE AN UNDERGROUND INJECTION CONTROL PERMIT  
FOR  
CENTURY OIL AND GAS CORPORATION

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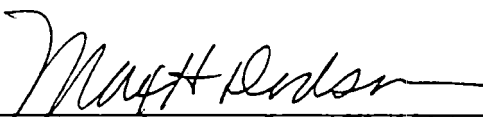
Environmental Protection Agency  
Montana Office  
Attn: Bill Engle  
Federal Office Building  
Drawer 10096  
301 South Park  
Helena, Montana 59626  
Telephone (406) 449-5414

Environmental Protection Agency  
Region VIII  
Ground Water Section  
Attn: Laura Clemmens  
One Denver Place, Suite 1300  
999 18th Street  
Denver, Colorado 80202-2413  
Telephone (303) 293-1419

Public comments are encouraged and will be accepted, in writing, at the Denver Office for a period of thirty (30) days after publication of this notice. A request for a public hearing should be made in writing and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IS SHOWN.

AUG 29 1985

Date of Publication

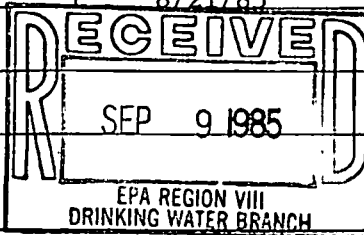


Max H. Dodson, Director  
Water Management Division



# PUBLIC VOUCHER FOR ADVERTISING

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE <b>U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division</b>		For Agency Use Only	
PLACE VOUCHER PREPARED <b>1860 Lincoln St., Denver, CO 80295</b>		VOUCHER NUMBER	
NAME OF PUBLICATION <b>Public Notice</b>		DATE PREPARED <b>8/21/85</b>	
NAME OF PUBLISHER OR REPRESENTATIVE <b>Wolf Point Herald News</b>		SCHEDULE NUMBER	
ADDRESS (Street, room number, city, State, and ZIP code) <b>P.O. Box 639 Wolf Point, Montana 59201</b>		PAID BY	



## CHARGES

TYPEFACE	(size of type)	POINT PER	(inch, square, word, or folio)
Line Rates	NUMBER OR LINES (Indicate counted or space)	COST PER LINE	TOTAL COST
		\$	\$
Other Rates	NUMBER OF UNITS (Indicate inch, square, word, folio)	COST PER UNIT	TOTAL COST
	<i>6 Folios</i>	<i>\$6.00</i>	<i>\$36.00</i>
(By signing upper and lower rules) to each line sign the following affidavit.		TOTAL LINE RATES AND OTHER RATES	
		LESS DISCOUNT AT %	
		BALANCE DUE	<i>\$36.00</i>
		VERIFIED (Initials)	

## AFFIDAVIT

The attached advertising order, with specifications and copy, which has been completed.

SIGNATURE OF PUBLISHER OR REPRESENTATIVE

*Deborah J. Walton*  
 TITLE *Principal Clerk*

DATE *8-29-85*

## FOR AGENCY USE ONLY

ADVERTISEMENT PUBLISHED IN	DATE PUBLISHED
I certify that the advertisement described above appeared in the named publication and that this account is correct and eligible for payment.	
SIGNATURE AND TITLE OF CERTIFYING OFFICER <i>Edna E. Walton, V/C Permits Clerk</i>	DATE <i>9/9/85</i>
SIGNATURE AND TITLE OF AUTHORIZING OFFICER	DATE
ACCOUNTING CLASSIFICATION	PAID BY CHECK NUMBER
6850200 KPN060 Order <i>X5279</i> 5A7108KOPN	
2540 08 Est. \$250.00	

\* If the ability to certify and authority to approve are combined in one person enter "N/A" (not applicable) here.

## ADVERTISING ORDER

X5279NASA  
ORDER NUMBER

DEPARTMENT OR ESTABLISHMENT, BUREAU OR OFFICE

U.S. ENVIRONMENTAL PROTECTION AGENCY, Water Management Division

DATE

Aug 21, 1985

The publisher of the publication named below is authorized to publish the enclosed advertisement according to the schedule below provided the rates are not in excess of the commercial rates

charged to private individuals with the usual discounts. It is to be set solid, without paragraphing, and without any display in the heading unless otherwise expressly authorized in the specifications.

NAME OF THE PUBLICATION ADVERTISED IN

Wolf Point Herald News

SUBJECT OF ADVERTISEMENT

PUBLIC NOTICE

EDITION OF PAPER ADVERTISEMENT APPEARED

NUMBER OF TIMES ADVERTISEMENT APPEARED

ONE TIME ONLY

DATE(s) ADVERTISEMENT APPEARED

Aug 29, 1985

(or prior to)

SPECIFICATIONS FOR ADVERTISEMENT

Reduction may be necessary. One (1) AFFIDAVIT OF PUBLICATION AND ONE (1) COPY OF PRINTED NOTICE IN ADDITION TO THE COMPLETED REVERSE OF THIS VOUCHER SHOULD BE MAILED TO: UIC PERMITS CLERK, Drinking Water Branch, Water Management Division, 8WM-DW, U.S. Environmental Protection Agency, 1860 Lincoln St., Denver, CO 80295

COPY FOR ADVERTISEMENT

COPY ATTACHED FOR PUBLIC NOTICE -

INTENT TO ISSUE AN UNDERGROUND INJECTION CONTROL  
PERMIT APPLICATION  
CENTURY OIL & GAS CORPORATION  
VICKERS #1 USDW  
(MTS21PR-0002)

AUTHORITY TO ADVERTISE	INSTRUMENT OF ASSIGNMENT
NUMBER EPA Delegations Manual 1-1-A(3)	NUMBER
DATE January 28, 1976	DATE 8/22/85
SIGNATURE OF AUTHORIZING OFFICIAL <i>Virginia Burns</i>	TITLE Contract Specialist

## INSTRUCTIONS TO PUBLISHERS

Extreme care should be exercised to insure that the specifications for advertising to be set other than solid be definite, clear, and specific since no allowance will be made for paragraphing or for display or leaded or prominent headings, unless specifically ordered, or for additional space required by the use of type other than that specified. Specifications for advertising other than solid and the advertisement copy submitted to the publisher will be attached to the voucher. The following is a sample of solid line advertisement set up in accordance with the usual Government requirements.

DEPARTMENT OF HIGHWAYS & TRAFFIC,  
D.C. Bids are requested for first spring 1966 cement concrete repair contract, including incidental work, Washington, D.C., Invitation No. C-5576-H, consisting of 11,000 sq. yds. PCC Class BB sidewalk repair and 2,000 cu. yds. PCC Class A pavement, alley, & driveway repair, both cut repairs only. Bidding material available from the Procurement Officer, D.C. Sealed bids to be opened in the Procurement Office at 8:00 p.m., November 16, 1965.

Your bill for this advertising order should be submitted on the "Public Voucher for Advertising" form, which is printed on the reverse of this form, immediately after the last publication of the advertisement. If copies of the printed advertisement are not available, complete the affidavit provided on the voucher. Submit the voucher and a copy of the printed advertisement to ▶.....

## IMPORTANT

Charges for advertising when a cut, matrix, stereotype or electrotype is furnished will be based on actual space used and no allowance will be made for shrinkage.

In no case shall the advertisement extend beyond the date and edition stated in this order.

Line	ADDITIONAL INSERTIONS GIVE NUMBER ▶	
	TOTAL	
Other Rates		NUMBER OF UNIT inch, square, word,
	FIRST INSERTION	6 Fol.
	ADDITIONAL INSERTIONS GIVE NUMBER ▶	
	TOTAL	

At	U. S. ENVIRONMENTAL PROTECTION AGENCY	ling upper and lower ru
cc	PUBLIC NOTICE INTENT TO ISSUE AN UNDERGROUND INJECTION CONTROL PERMIT FOR CENTURY OIL AND GAS CORPORATION	able sign the following
	PURPOSE OF PUBLIC NOTICE	
	The purpose of this notice is to solicit public com- ment on the proposal by the Region VIII Office of the U. S. Environmental Protection Agency (EPA) to issue a permit to inject fluids underground via a Class II salt water disposal injection well.	
Th	BACK GROUND	atched advertising order,
SIG	EPA Region VIII is currently reviewing an applica- tion for an Underground Injection Control Permit for the Vickers No. 1 SWDW from Century Oil and Gas Corporation, of 7887 Bellevue Avenue, Suite 800, Englewood, Colorado, 80111. The well is located in the SE quarter of Section 6, Township 29 North, Range 50 East, in Roosevelt County.	ATIVE
TIT	Century Oil and Gas has been injecting brines pro- duced in conjunction with oil production from the Charles Formation into the Dakota Formation since April 1, 1983. The injected water is produced by a number of different operators in the Poplar Field, and is hauled from the producing wells to the Vickers disposal facility. The average total dissolved solids level for the disposal water is 250,000 mg./l. There are no known drinking water wells within the area of review.	FOR AGE
AD	Century Oil and Gas Corporation has supplied all required information data necessary for permit is- suan in accordance with 40 CFR Parts 144, 146, and 147, and a draft permit has been prepared. EPA has made a preliminary determination to approve the permit application and that by doing so, all underground sources of drinking water will be pro- tected. Therefore, EPA is hereby serving notice of intent to issue a permit for the proposed under- ground injection activity. This action is being taken as provided by Part C of the Safe Drinking Water Act and attendant regulations, 40 CFR 144.33.	ed above appeared in
6	The final permit will be issued for the operating life of the well, therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR Sections 144.39, 144.40, and 144.41).	ICER VIC Perm FFICER
2	PUBLIC COMMENTS	ACCOUNTING CLASSIFICATI
	All data, except confidential business information, submitted by the applicant, as well as the draft per- mit prepared by EPA, are contained in the adminis- trative record for Century Oil and Gas Corporation. This information is available for public inspection at the following locations from 9:00 a.m. to 5:00 p.m., or by contacting one of the following offices:	Order
	Environmental Protection Agency Montana Office Attn: Bill Engle Federal Office Building Drawer 10096 301 South Park Helena, Montana 59626 Telephone (406) 449-5414	08
	Environmental Protection Agency Region VIII Ground Water Section Attn: Laura Clemmens One Denver Place, Suite 1300 999 15th Street Denver, Colorado 80202-2413 Telephone (303) 293-1419	rove are combined in one
	Public comments are encouraged and will be ac- cepted, at the Denver Office for a period of thirty (30) days after publication of this notice. A request for a public hearing should be made in writing and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IN SHOWN.	
	Max H. Dodson, Director Water Management Division	
	HN: 8-29, 1985	



408 MAIN STREET — P.O. LOCK BOX 639  
WOLF POINT, MONTANA 59201

No 5295

Sold to E.P.A.

Sold to \_\_\_\_\_  
Address 161 Lincoln St. N. W.

Dept

	Credit		
Charge (✓)	Acct. (-)	Cash ( )	

Credit  
Acct.

Cash ( )

Dafe

[illegible]

Permit Writer's Review Notes  
Worksheets, Etc.

Casing/Tubing Annulus  
Pressure Test

File Vickers #1

Name of Company: Century Oil & Gas Corp. Date: 9/25/85

Name of Well: Vickers #1-SWDW Permit No.: \_\_\_\_\_

Name of Field NW Poplar County: Roosevelt

Location of Well: SW 1/4 SE 1/4 Sec. 6 T-29N R-50E

Type of Well: SWD X ER \_\_\_\_\_ Total Depth: 6508 Ft.

Type of Packer: Baker Model "A-2 Lock Set" CIBP - 4190

Packer Setting Depth: 3805

Surface Casing Size: 8 5/8 From: 0 Ft. To 418 Ft.

Casing Size: 5 1/2 From: 0 Ft. To 6508 Ft.

Tubing Size: 2 3/8 Amount: 3805

Time of Test: 10:40 AM Pressure Gauge Reading:

0 Min: 825

5 825

10 850

15 850

20 860

25 875

30 875

35 875

40 875

45 875

50 \_\_\_\_\_

55 \_\_\_\_\_

60 \_\_\_\_\_

Passed Test  
WE Eng

Inspected by: James Rowe

ENVIRONMENTAL PROTECTION  
AGENCY  
SEP 30 1995  
REGIONAL OFFICE



Local Geology - Vickers injects into the interval ~~2460'~~<sup>3610'</sup> - 4060' in the Lakota Fm.

The Bearpaw Shale is exposed at the surface, therefore, the Fox Hills, the Hell Creek + the Ft. Union Fms. are not in this area. The Judith River Fm. is encountered at 1317' to 1396' in the Vickers' bore. There is an approx. 2300' shale section between the Judith River + the Dakota/Lakota perforations.

~~Upper~~<sup>Basal</sup> Contact Jurassic Morrison Fm (200') (firm shales). Upper contact is w/ Skull Creek Fm. (shale) (200-250' Thick)

## Well Construction

The Vickers #1 (formerly 6-15) was originally constructed as a producer in the Charles C McGowan Fm in 1981. It became uneconomical to produce, in 1982, and was converted to a disposal well at that time. The permittee included a detailed drilling report with the permit application. The cementing calculations run by the permittee bear out the estimated cement ~~to~~ tops.

(5.77) (1.15) (570) = 3,782' ~~plus~~<sup>cap cement</sup> cement  
Hole Size/Casing Class 7 7/8" / 5 1/2" G Total 5X  
Calculated cement top - 3110' (permittee)  
Est. cement top - 2668' (permittee)



Permit Review ②  
6/14/85

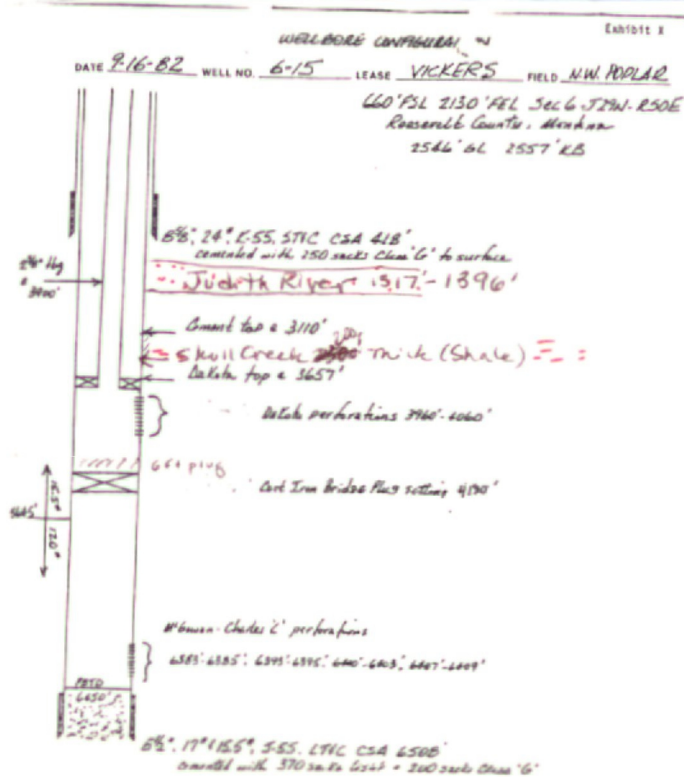
## Well Construction Details (cont.)

The well was converted by setting a bridge plug @ 4200', a GR/Calculation log was run to select Dakota Interval. Dakota was perforated & acidized from 3960'-4060', ~~st~~ Formation was then pump tested to determine injectivity.

At that time approx 3900' of 2 3/8" tubing R114 and injection pkr was set @ 3800' + backside was filled w/ non-corrosive annulus fluid.

Current well configuration is shown below:

Because the Judith River Formation is <sup>protected</sup> not isolated by surface casing or by cement, it is important to determine, either thru a CBL or injectivity profile that the injection zone is properly isolated by cement. Otherwise, calculations indicate that the well is constructed in a manner which



prevents the migration of injection fluids. A MAT well will be run to determine the casing integrity. Completion field reports indicate a CBL + Pump Test were run in 2/83.



## Injection Interval

via  
GC/Conc.  
log

The injection interval, determined by the permittee to be the most receptive portion of the Dakota Fm. is located between 3960-4060', and is isolated by roughly 200' of confining shale layers at the upper and basal contact. The Skull Creek formation is the upper contact, and the Morrison fm. is the basal contact. The Dakota Formation, although not hydrocarbon bearing, has been used for disposal of produced water since the 1950's. In addition, the Dakota formation in the vicinity of this well was ~~granted~~ exempted as a U.S.D. Therefore, the interval is an acceptable + safe zone for injection.

possible  
upon UIC log  
program



④  
Permit  
Review  
6/14/85

Injection Pressure . Permittee  
has stated the average daily  
injection pressure is 550 psi.  
40 CFR Part 147.1353 (b) states that  
the owner or op shall limit inj. pressure  
to a value for well head pressure  
calculated by using the following  
formula:

$$P_m = (0.733 - 0.433 S_g) d$$

(1.07)

$$P_m = (0.733 - 0.433(1.07)) d$$

Air Spec grav.  
from water  
sample

$$P_m = (.733 - .463) d$$

$$P_m = .27 d (4000)$$

$$P_m = 1080 \text{ psi} -$$

Injection Volume . Permittee has  
stated that the average daily  
rate of fluids injected is 1,000 BWP.

Pump  
Test ?

FM FAC  
750 psi